

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU03/00676

**A. CLASSIFICATION OF SUBJECT MATTER**

Int. Cl. 7: G01N 33/80, 33/569

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPIDS, MEDLINE, CA; KEYWORDS: FETAL, TROPHOBLASTS, HLA, MATERNAL, BLOOD, ANTIBODY, CELLS

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|-----------|---|-----------------------|
| Y         | US 5153117 A (SIMONS) 6 October 1992<br>Claims  | 1-57                  |
| Y         | US 5447842 A (SIMONS) 5 September 1995<br>Whole document  | 1-57                  |
| Y         | WEGMANN T. et al, "Allogenic placenta is a paternal strain antigen immunoabsorbent" J Immunol (1979) Jan, Vol 122 No 1 p270-274<br>Discussion | 1-57                  |

☒ Further documents are listed in the continuation of Box C☒ See patent family annex

|   |  |
|---|--|
| * Special categories of cited documents:  | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |
| "A" document defining the general state of the art which is not considered to be of particular relevance  | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone   |
| "E" earlier application or patent but published on or after the international filing date   | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "&" document member of the same patent family  |
| "O" document referring to an oral disclosure, use, exhibition or other means  |  |
| "P" document published prior to the international filing date but later than the priority date claimed  |  |

Date of the actual completion of the international search

15 August 2003

Date of mailing of the international search report

04 SEP 2003

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| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT |   |                       |
|---|---|-----------------------|
| Category*   | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
| Y   | REED E. et al, "The alloantibody response of pregnant women and its suppression by soluble HLA antigens and anti-idiotypic antibodies" J. Reprod. Immunol. Vol 20 (1991) p115-128<br>Whole document | 1-57                  |
| A   | US 5541072 A (WANG et al) 30 July 1996<br>Claims 1-2 and 37   |                       |
| P, A  | SZEKERES-BARTHO J et al, "Immunological relationship between the mother and the fetus" Intern. Rev. Immunol., (2002) Nov-Dec, Vol 21 p471-495<br>Pages 472-477 in particular.                       |                       |
| A   | US 5503981 A (MUELLER et al) 2 April 1996<br>Whole document   |                       |
| A   | MOWBRAY J et al, "Maternal Response to Paternal Trophoblast Antigens" AJRI (1997) Vol 37, p421-426<br>Introduction  |                       |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU03/00676

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

| Patent Document Cited in<br>Search Report |         |    |          | Patent Family Member |         |    |          |
|---|---------|----|----------|----------------------|---------|----|----------|
| US  | 5153117 | AU | 74716/91 | CA                   | 2059554 | EP | 486626   |
|   |         | IE | 910996   | IL                   | 97677   | NZ | 237589   |
|   |         | SG | 79188    | ZA                   | 9102317 | WO | 9102317  |
|   |         | US | 5447842  |                      |         |    |          |
| US  | 5447842 | EP | 521909   | US                   | 5447842 |    |          |
| US  | 5541072 | US | 5622831  | US                   | 5795470 | US | 5876593  |
|   |         | US | 6013532  | CA                   | 2087037 | AU | 15665/92 |
|   |         | AU | 85485/91 | IE                   | 913332  | IE | 920526   |
|   |         | EP | 577643   | EP                   | 593480  | WO | 9216844  |
|   |         | WO | 9415696  | WO                   | 9411078 | WO | 9627132  |
| US  | 5503981 | AU | 46466/89 | CA                   | 2004592 | CN | 1043788  |
|   |         | DK | 1073/91  | EP                   | 447424  | NO | 912133   |
|   |         | NZ | 231621   | WO                   | 9006509 |    |          |
| END OF ANNEX                              |         |    |          |                      |         |    |          |